

ABSTRACT OF THE DISCLOSURE

5 An electro discharge machining apparatus comprises
a first holder for holding a workpiece to be subjected to
electro discharge machining, an electrode provided opposing
the workpiece held by the first holder, a capacitor for
supplying electric charge to the electrode and the workpiece
so as to generate pulse electro discharge between the
workpiece and the electrode, a power source for applying
10 a voltage to the capacitor, a switching element provided
between the capacitor, and at least one of the electrode,
the workpiece and the power source, a switch controller for
controlling on and off of the switching element, a current
detecting element for detecting a current flowing between
15 the workpiece and the electrode, and a control unit for,
based on the current detected by the current detecting
element, judging whether or not a short circuit occurs
between the workpiece and the electrode. When it is judged
that a short circuit occurs between the workpiece and the
20 electrode, the switch controller switches off the switching
element for a predetermined time.